

TORBERN BERGMAN MEDALIST 2018

PROFESSOR JONATHAN SWEEDLER

UNIVERSITY OF ILLINOIS



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ANALYSDAGARNA

20 JUNE 2018

Torbern Bergman Medal 2018

Jonathan V. Sweedler is the James R. Eiszner Family Endowed Chair in Chemistry, the Center for Advanced Study Professor of Chemistry and Director of the School of Chemical Sciences at the University of Illinois at Urbana-Champaign.

He received his B.S. degree in Chemistry from the University of California at Davis in 1983. He pursued with studies on charge-transfer devices for spectroscopy under the supervision of Bonner Denton at the University of Arizona where he obtained his Ph.D. in 1989. Thereafter, he was an NSF Postdoctoral Fellow at Stanford University working with capillary electrophoresis and neuropeptides, together with Richard Zare and Richard Scheller as postdoctoral advisors, before joining the faculty at the University of Illinois in 1991.

His research interests are in bioanalytical chemistry, and focus on developing new methods for assaying the chemistry occurring in nanoliter-volume samples, and applying these analytical methods to characterize the molecular forms, distribution, and dynamic release of neurotransmitters and neuropeptides from a range of animal models. Professor Sweedler is Editor-in-Chief of the journal *Analytical Chemistry*.

Torbern Bergman Medal 2018

Torbern Bergman (1735 - 1784) came to Uppsala in 1752. He began, under parental influence, studying theology and philosophy, and - secretly - mathematics, physics, and astronomy. During the years of 1755 - 58, he produced several dissertations, which rendered him a senior lectureship in physics.

In 1767, the chair of chemistry at Uppsala University was to be filled. Bergman's application comprised one single chemical work, but through the personal intervention of Gustav III, he was appointed, which proved extraordinarily fortunate for chemistry. Within a few years, Bergman was considered among the foremost chemists in Europe. His research ardour was immense. In addition, he was a distinguished teacher. A bibliography of Bergman's publications (Birgitta Moström, 1957) includes 307 articles in Swedish and several other languages. Many of these works are available at the university library in Uppsala.

Bergman's contributions concerned, to a great extent, analytical chemistry. It was therefore natural for the Analytical Division of the Swedish Chemical Society to honour him by instituting the Torbern Bergman Medal in 1967, on the 200th anniversary of his appointment to the chair of chemistry at Uppsala University

The following analytical chemists have been awarded the Torbern Bergman Medal:

Gerold Schwarzenbach (1967)

Anders Ringbom (1969)

Charles N Reilly (1971)

Evan C Horning (1973)

Alan Walsh (1976)

Kai Siegbahn (1979)

Joseph J Kirkland (1982)

Jaromir Ruzicka (1985)

James D Winefordner (1987)

John Knox (1990)

Bruce Kowalski (1993)

Svante Wold (1993)

Stellan Hjertén and

Jim Jorgensen (1996)

William R Heineman (1999)

Fred W McLafferty (2001)

Csaba Horváth (2003)

Franz Hillenkamp and

Michael Karas (2006)

Barry Karger (2008)

Janusz Pawliszyn (2010)

Richard Zare (2012)

Allen J Bard and

Adam Heller (2014)

Carol Robinson (2016)

